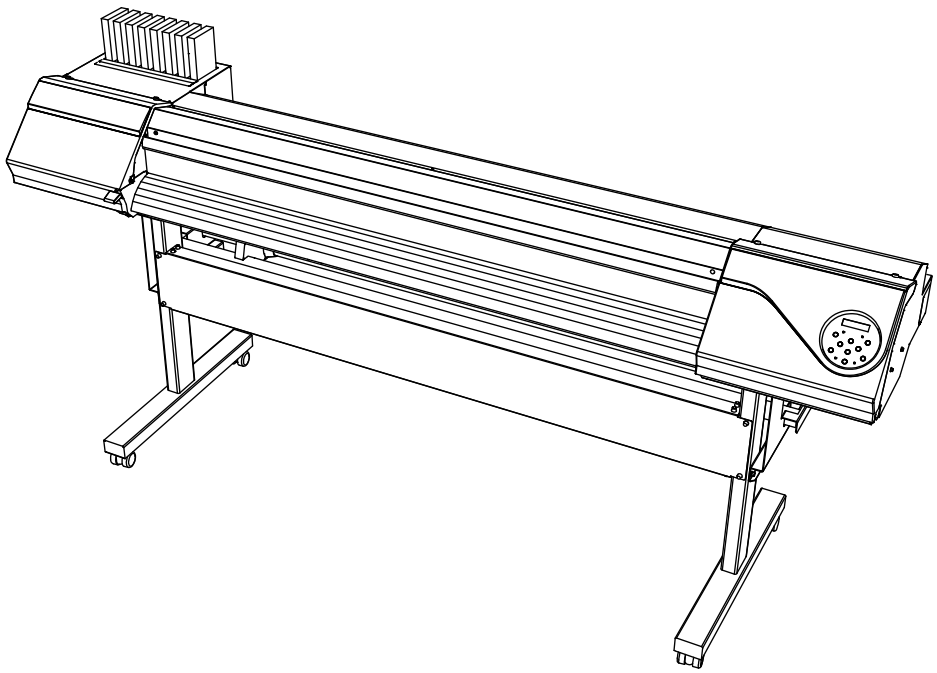
Roland

VersaCAMM

VS-640 VS-420
VS-540 VS-300

USER'S MANUAL



Thank you very much for purchasing this product.

- To ensure correct and safe usage with a full understanding of this product's performance, please be sure to read through this manual completely and store it in a safe location.
- Unauthorized copying or transferral, in whole or in part, of this manual is prohibited.
- The contents of this document and the specifications of this product are subject to change without notice.
- The documentation and the product have been prepared and tested as much as possible. If you find any misprint or error, please inform us.
- Roland DG Corp. assumes no responsibility for any direct or indirect loss or damage which may occur through use of this product, regardless of any failure to perform on the part of this product.
- Roland DG Corp. assumes no responsibility for any direct or indirect loss or damage which may occur with respect to any article made using this product.

Roland DG Corporation

Chapter 7 Main Specifications.....161

Printing/Cutting Area 162
Maximum Area 162
Maximum Area When Using Crop Marks 162
The Media-cutoff Location During Continuous Printing 163
About the Blade.....164
Locations of the Power Rating and Serial Number Labels.....165
Specifications 166

This document is the Use's Manual for four models: VS-640/540/420/300. This document uses the following notation to distinguish between the four models where necessary.
VS-640 — 64-inch model
VS-540 — 54-inch model
VS-420 — 42-inch model
VS-300 — 30-inch model

Also, most of the figures in this document depict the VS-640

Company names and product names are trademarks or registered trademarks of their respective holders.

Copyright © 2010 Roland DG Corporation

http://www.rolanddg.com/

⚠ This machine weighs 200 kg (441 lb.). Media weighs 40 kg (88 lb.).

⚠ WARNING

Install the machine in a location that is level, stable, and able to bear the weight of the machine.

The total weight may reach over 200 kg (441lb.) for the 64-inch model (, 170kg (375lb.) for the 54-inch model, 150 kg (331lb.) for the 42-inch model, and 130 kg (287lb.) for the 30-inch model). Installation in an unsuitable location may cause a major accident, including tip over, fall, or collapse.

Unloading and emplacement are operations that must be performed by 6 persons or more (, by 4 persons or more for the 30-inch model).

Tasks that require undue effort when performed by a small number of persons may result in physical injury. Also, if dropped, such items may cause injury.

⚠ WARNING

Be sure to lock the stand's casters.

If the machine should begin to topple, a major accident may result, including crushing of the appendages or the body.

When storing roll media, implement adequate safety measures to ensure that the stored media will not roll, fall, or topple over.

Danger exists of becoming pinned under the media and suffering serious injury.

Handling roll media is an operation that must be performed by two persons or more, and care must be taken to prevent falls.

Attempting to lift heavy media in a manner that taxes your strength may cause physical injury.

⚠ Danger of fire, burns, or toxic gas emissions

⚠ WARNING

Caution: high temperatures

Areas such as the dryer become hot. Exercise caution to avoid fire or burns.

When printing is not being performed, remove any loaded media or switch off the power.

The continued application of heat at a single location may cause the release of toxic gases from the media or pose a fire hazard.

⚠ WARNING

Never use media that cannot withstand heat.

Doing so may degrade the media, or may result in fire or the release of toxic gases.

⚠ Le poids de cet appareil est de 200 kg (441 lb.) Le poids du support est de 40 kg (88 lb.)

⚠ATTENTION

Installer l'appareil à un endroit stable et plat et capable de supporter son poids.
Le poids total de l'appareil peut être de 200 kg (441 lb.) ou plus pour le modèle de 64 pouces (170 kg (375 lb.) ou plus pour le modèle de 54 pouces, 150 kg (331 lb.) ou plus pour le modèle de 42 pouces,130 kg (287 lb.) ou plus pour le modèle de 30 pouces). Installer l'appareil à un endroit inapproprié peut provoquer un accident grave comme le renversement, la chute ou l'écrasement.

Le déchargement et la mise en place doivent être faits par au moins 6 personnes on plus (, 4 personnes ou plus pour le modèle de 30 pouces).
Les tâches qui exigent un effort trop grand si elles sont exécutées par un petit nombre de personnes peuvent être cause de blessures. La chute d'articles très lourds peut aussi causer des blessures.

⚠ATTENTION

S'assurer de verrouiller les roulettes de la base.
Si l'appareil devait commencer à basculer, il s'ensuivrait un accident grave, par exemple l'écrasement de membres ou du corps.

Prendre les mesures de sécurité adéquates pour l'entreposage des rouleaux de support pour s'assurer qu'ils ne rouleront pas, ne tomberont pas et ne se renverseront pas.
Il y a risque d'être écrasé par le support et de subir des blessures graves.

La manutention du support en rouleau doit être faite par deux personnes ou plus et il faut prendre des précautions pour éviter les chutes.
Tenter de soulever des objets trop lourds peut causer des blessures.

⚠ Risque d'incendie, de brûlures ou d'émissions de gaz toxiq

⚠ATTENTION

Attention : températures élevées.
Les zones comme le séchoir chauffent. Faire preuve de prudence pour éviter un incendie ou des brûlures.

Quand aucun travail d'impression n'est en cours, retirer tout support de l'appareil ou couper l'alimentation électrique.
L'application continue de chaleur à un point unique peut causer l'émission de gaz toxiques ou créer un risque d'incendie.

⚠ATTENTION

Ne jamais utiliser un support qui ne peut pas supporter la chaleur.
L'utilisation d'un support qui ne supporte pas la chaleur peut détériorer le support, créer un risque d'incendie ou causer l'émission de gaz toxiques.

Usable Media

This machine cannot necessarily print every kind of media. When selecting media, be sure to carry out testing in advance to make sure that satisfactory printing quality is obtained.

Size

Width (For both Roll Media and sheet media)

64-inch model: 210 to 1625 mm (8.3 to 64 inches)
54-inch model: 210 to 1371 mm (8.3 to 54 inches)
42-inch model: 210 to 1071 mm (8.3 to 42 inches)
30-inch model: 210 to 762 mm (8.3 to 30 inches)

A) Cuttable media thickness (For both Roll Media and sheet media)

0.08 mm to 0.22 mm (0.3 to 1 mil) (depending on media composition)

B) Maximum media thickness (For both Roll Media and sheet media)

Printing only:1.0 mm (4mil)
When performing cutting: 0.4 mm (1.6 mil)

Roll outer diameter

210 mm (8.2 inches)

Paper tube (core) inner diameter

76.2 mm (3 inches) or 50.8 mm (2inches)

Note: To use 2 inches media, the optional media flanges are required. For information about optional items, contact your authorized dealer or us.

Roll weight

64-inch model: 40 kg (88 lb.)
54-inch model: 30 kg (66 lb.)
42-inch model: 25 kg (55 lb.)
30-inch model: 25 kg (55 lb.)

Note: When using the take-up unit, conditions are dependent on the usable media of the take-up unit.

Other conditions

Media such as the following cannot be used.

- Media whose end is attached to the paper tube (core)
- Media which is severely warped or which has a strong tendency to reroll
- Media that cannot withstand the heat of the media heating system
- Media whose paper tube (core) is bent or crushed
- Media that bends under its own weight when loaded
- Media on a sagging roll
- Media that is rolled unevenly

Loading Roll Media

⚠CAUTION **Load roll media correctly.**
Otherwise the media may fall and cause injury.

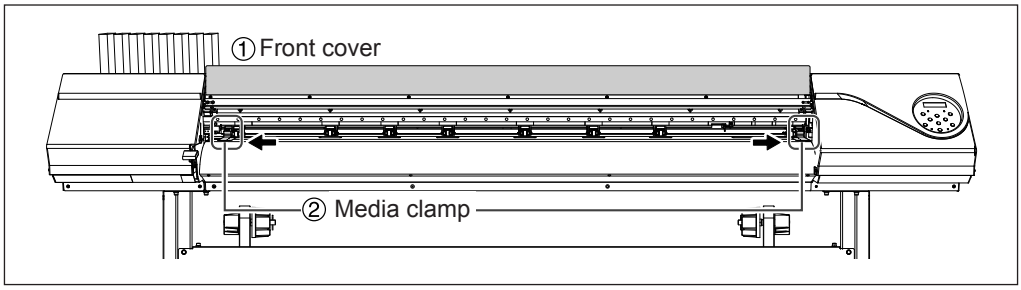
⚠CAUTION **Roll media weighs about 40 kg (88 lb.). To avoid injury, handle with care.**

⚠CAUTION **Never load media that weighs over 40 kg (88lb.) for the 64-inch model (, 30 kg (66lb.) for the 54-inch model, and 25 kg (55lb.) for the 42-inch or the 30-inch model).**
The machine may fail to withstand the weight and tip over or cause the media to fall.

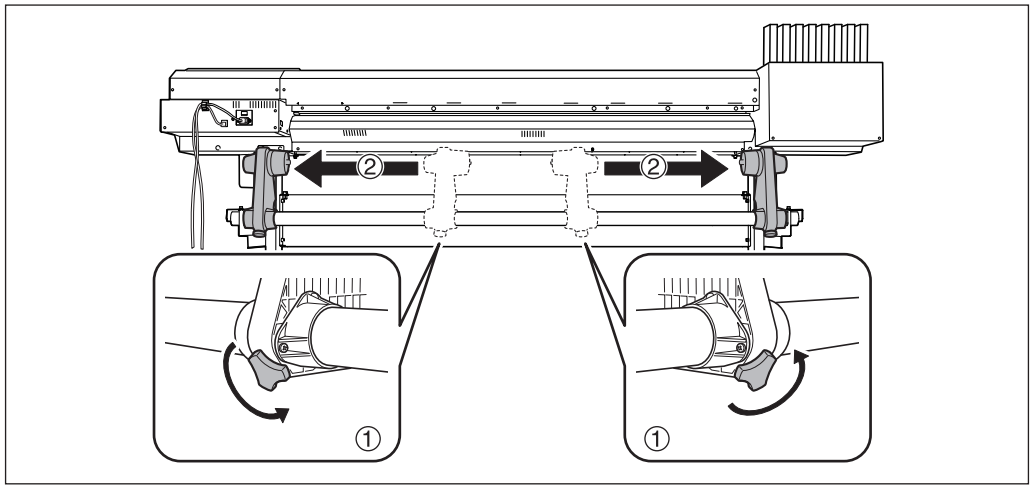
1. Install the media to the media holder.

Note: The media holder of this machine is exclusive use for the media of paper tube (core) inner diameter 3 inches. To use 2 inches media, the optional media flanges are required. For information about optional items, contact your authorized dealer or us.

1 **① Open the front cover.**
② Move the media clamps to the left and right ends respectively.



2 **① Loosen the retaining screws of the media holders.**
② Move the media holders all the way to the left and right.



Replacing the Wiper

The wiper is a component that you use when cleaning the print head. When the screen displays a message like the one shown, it means the item needs to be replaced. Replace with new items.

TIME FOR WIPER REPLACE ↵

Regarding the purchase of the wiper, contact your authorized Roland DG Corp. dealer.

⚠CAUTION **Be sure to perform operations as specified by the following instructions, and never touch any area not specified in the instructions.**
Sudden movement of the machine may cause injury.

1. Display the [REPLACE WIPER] menu.

❶ TIME FOR / WIPER REPLACE ↵ — **When the message shown in the figure appears, press ENTER.**

❷ **Remove any media from the platen.**

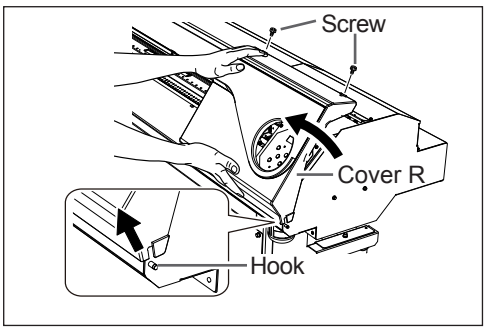
❸ **Press MENU.**

❹ MENU / SUB MENU ▸ — **Press ▼ several times until the screen shown on the left appears.**
Press ► , and then ▲.

❺ SUB MENU / MAINTENANCE ▸ — **Press ► , and then ▼.**

❻ MAINTENANCE / REPLACE WIPER ↵ — **Press ENTER.**
The print-head carriage moves to a location where wiper replacement is possible, and then the screen shown in the figure appears.

OPEN COVER R

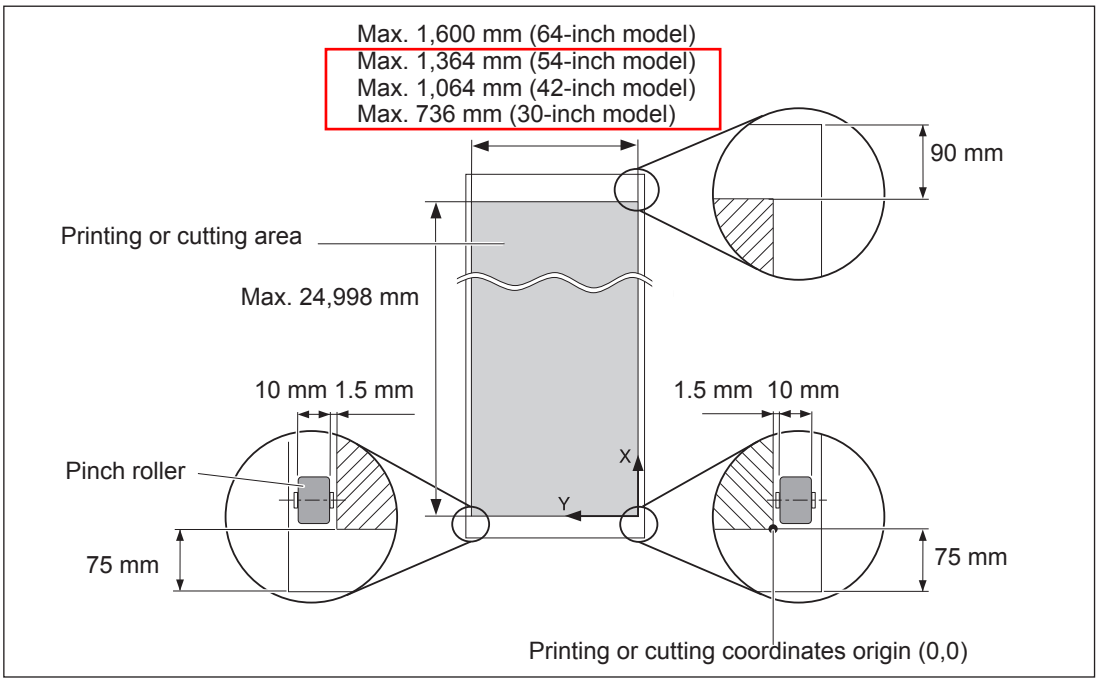
❼ 

Remove the cover R.

Printing/Cutting Area

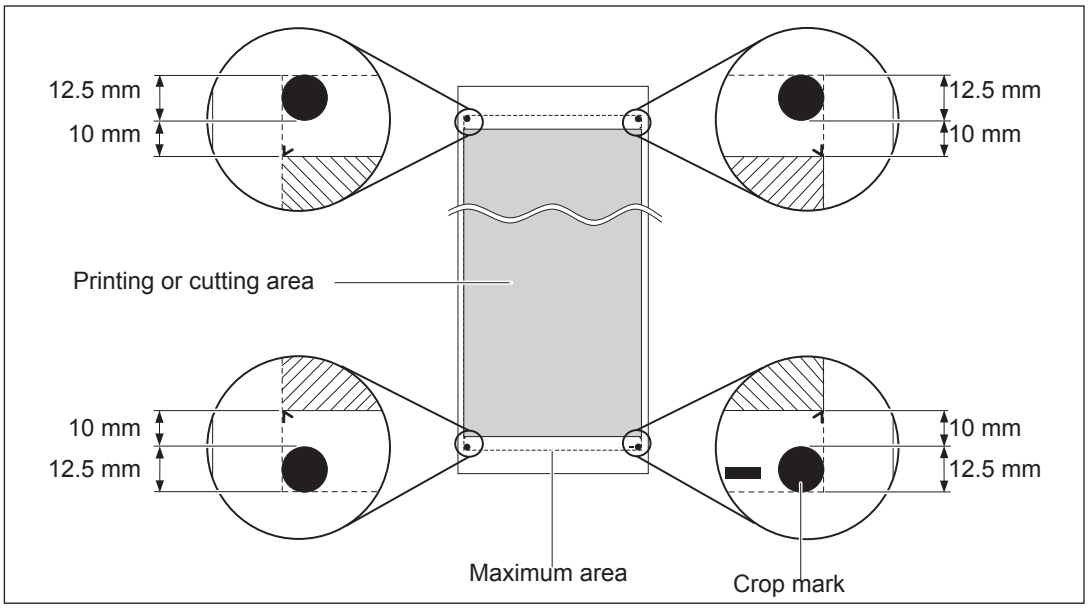
Maximum Area

The printing or cutting area along the horizontal plane (the direction in which the carriages move) is determined by the position of the pinch rollers.



Maximum Area When Using Crop Marks

When crop marks are used, the printing or cutting area is reduced from the maximum area by an amount equal to the crop marks.



*1

Note: The media holder of this machine is exclusive use for the media of paper tube (core) inner diameter 3 inches. To use 2 inches media, the optional media flanges are required.

*2

The length of printing or cutting is subject to the limitations of the program.

*3

- Media type: Media specified by Roland DG Corp. (Cutting only)
- Temperature: 25°C (77°F), humidity: 50%
- Roll media must be loaded correctly.
- Applicable when all pinch rollers available to the media width are used.
- Side margins: 25 mm or more for both the left and right margins
- Front margin: 35 mm or more
- Excluding expansion/contraction of the media
- Not assured when the print heater or dryer is used.
- All correction or adjustment function of this machine has been made properly.

*4

- With Roland PET film, print travel: 1 m

*5

- [PREFEED] menu item must be set to "ENABLE."

Range for assured repetition accuracy

64-inch model

- For media with a width exceeding 610 mm: Length 4,000 mm
- For media with a width of 610 mm or less: Length 8,000 mm

54-inch model

- For media with a width exceeding 610 mm: Length 4,000 mm
- For media with a width of 610 mm or less: Length 8,000 mm

42-inch model

- Length 3,000 mm

30-inch model

- Length 3,000 mm

*6

- Provided that media length is under 3,000 mm
- Excludes the effects of slanted movement and of expansion and contraction of the media.

*7

- Data size:

64-inch model:1,000 mm in the media-feed direction, 1,600 mm in the carriage-movement direction
54-inch model:1,000 mm in the media-feed direction, 1,600 mm in the carriage-movement direction
42-inch model:1,000 mm in the media-feed direction, 1,346 mm in the carriage-movement direction
30-inch model:1,000 mm in the media-feed direction, 736 mm in the carriage-movement direction

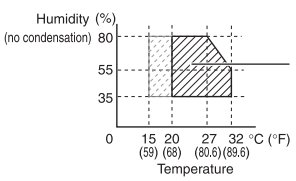
- No lamination
- Automatic detection of crop marks at 4 points when media is reloaded.
- During cutting, [PREFEED] menu item must be set to "ENABLE."
- Excluding possible shift caused by expansion/contraction of the media and/or by reloading the media.

*8

- Warm-up is required after power up. This may require 5 to 20 minutes, depending on the operating environment.
- Depending on the ambient temperature and media width, the preset temperature may fail to be reached.

*9

- Operating environment



Use in an operating environment with this range.

This product is using GNU General Public License (GPL) / GNU Lesser General Public License (LGPL) software. You have the right to acquire, modify, and distribute the source code for this GPL/LGPL software. You can obtain the GPL/LGPL source code used in this product by downloading it from the following website.
URL: http://www.rolanddg.com/gpl/

RolandDG Corp. has licensed the MMP technology from the TPL Group.

R2-100701